

## Message Text

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PAGE 01 STATE 109249  
ORIGIN NRC-07

INFO OCT-01 EA-12 ISO-00 OES-07 ACDA-12 CIAE-00 INR-10  
IO-14 L-03 NSAE-00 NSC-05 EB-08 SOE-02 DODE-00  
DOE-15 SS-15 SP-02 CEQ-01 DOEE-00 /114 R

DRAFTED BY USNRC:JDLAFLEUR,JR.  
APPROVED BY OES/NET/IM:D B HOYLE  
EA/J: D BROWN  
ACDA: N HOLLINGSWORTH  
-----099975 282313Z /70

P 282156Z APR 78  
FM SECSTATE WASHDC  
TO AMEMBASSY TOKYO PRIORITY

UNCLAS STATE 109249

E.O. 11652: N/A

TAGS: TECH, JA

SUBJECT: NRC ESTABLISHMENT OF OPERATING LIMITS FOR 14  
PWR'S

REFERENCE: TOKYO 06814

1. SUMMARY: NRC RESPONDS TO EMBASSY REQUEST FOR MORE  
DETAILED INFO ON ESTABLISHMENT OF NEW OPERATING LIMITS FOR  
14 PWR'S, AS MENTIONED BRIEFLY IN RECENT TRADE JOURNALS.  
END SUMMARY.

2. NRC STAFF ANNOUNCED ON APRIL 4, 1978, THAT IT WAS  
ESTABLISHING NEW LIMITS FOR EIGHT UTILITY OPERATORS OF 14  
POWER REACTORS MANUFACTURED BY WESTINGHOUSE, FOLLOWING  
DISCOVERY OF ERROR IN COMPUTER CODE USED TO CALCULATE  
PERFORMANCE OF ECCS. AS RESULT OF ERROR, NRC STAFF HAS  
CALCULATED THAT HOTTEST ROD IN CORES OF 14 REACTORS  
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(KEWAUNEE, SURRY 1 AND 2, TURKEY POINT 3 AND 4, INDIAN  
POINT 2 AND 3, SALEM 1, ZION 1 AND 2, D.C. COOK 1 AND 2,  
AND PRAIRIE ISLAND 1 AND 2) COULD EXCEED 2200 DEGREE F.  
LIMIT IMPOSED BY NRC IN CASE OF LOCA.

3. TO COMPENSATE FOR ERROR, UTILITIES WILL HAVE TO LIMIT  
AMOUNT OF HEAT GENERATED BY HOTTEST FUEL ROD IN REACTOR,

WITH LIMIT VARYING FROM REACTOR TO REACTOR.

4. NRC STAFF HAS ESTIMATED THAT, WITH A FEW POSSIBLE EXCEPTIONS, NEW LIMITS WILL PROBABLY NOT RESULT IN ANY DERATING FROM CURRENTLY AUTHORIZED ELECTRICAL POWER LEVELS AFTER OTHER FACTORS TAKEN INTO ACCOUNT; E.G., MORE FAVORABLE HEAT TRANSFER CONDITIONS PERMITTED BY NRC REGULATIONS AND WAY REACTOR IS OPERATED.

5. NRC, ON APRIL 24, SENT TO DEPARTMENT OF STATE COPY OF 8-PAGE PRELIMINARY, REPEAT PRELIMINARY, SAFETY EVALUATION REPORT, CONTAINING MORE DETAILED ANALYSIS, FOR EARLY AIR POUCHING TO EMBASSY. VANCE

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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 jan 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** NUCLEAR AGREEMENTS, STANDARDS, NUCLEAR REACTORS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 28 apr 1978  
**Decaption Date:** 01 jan 1960  
**Decaption Note:**  
**Disposition Action:** n/a  
**Disposition Approved on Date:**  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 jan 1960  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
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**Document Number:** 1978STATE109249  
**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** JDLAFFLEUR, JR.  
**Enclosure:** n/a  
**Executive Order:** N/A  
**Errors:** N/A  
**Expiration:**  
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**Reference:** 78 TOKYO 6814  
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**Review Release Event:** n/a  
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**Subject:** NRC ESTABLISHMENT OF OPERATING LIMITS FOR 14 PWR'S  
**TAGS:** TECH, JA  
**To:** TOKYO  
**Type:** TE  
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**Review Markings:**  
Sheryl P. Walter  
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**Markings:** Sheryl P. Walter Declassified/Released US Department of State EO Systematic Review 20 Mar 2014